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| <u>NEWS</u> | <u>2</u> | "Ask CAS" for self-help around the clock |
| <u>NEWS</u> | <u>3</u> | EXTEND option available in structure searching |
| <u>NEWS</u> | <u>4</u> | Polymer links for the POLYLINK command completed in REGISTRY |
| <u>NEWS</u> | <u>5</u> | New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus |
| <u>NEWS</u> | <u>6</u> | CAplus super roles and document types searchable in REGISTRY |
| <u>NEWS</u> | <u>7</u> | STN Patent Forums to be held July 19-22, 2004 |
| <u>NEWS</u> | <u>8</u> | Additional enzyme-catalyzed reactions added to CASREACT |
| <u>NEWS</u> | <u>9</u> | ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R) |
| <u>NEWS</u> | <u>10</u> | BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS |
| <u>NEWS EXPRESS</u> | | MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004 |
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| <u>NEWS LOGIN</u> | | Welcome Banner and News Items |
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FILE COVERS 1907 - 23 Jul 2004 VOL 141 ISS 5
FILE LAST UPDATED: 22 Jul 2004 (20040722/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s fracturing fluid and polyacrylate

6493 FRACTURING
 356189 FLUID
 658 FRACTURING FLUID
 (FRACTURING (W) FLUID)
 20557 POLYACRYLATE

L1 7 FRACTURING FLUID AND POLYACRYLATE

=> d 11 1-7

L1 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

AN 2003:490850 CAPLUS

DN 139:55180

TI Aqueous well treatment fluids, especially fracturing fluids, containing hydrophobically modified polymers and viscoelastic surfactants

IN Couillet, Isabelle; Hughes, Trevor

PA Schlumberger Holdings Limited, Virgin I. (Brit.)

SO Brit. UK Pat. Appl., 43 pp.

CODEN: BAXXDU

DT Patent

LA English

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
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|---------------|----|----------|----------------|----------|
| PI GB 2383355 | A1 | 20030625 | GB 2001-30880 | 20011222 |
| WO 2003056130 | A1 | 20030710 | WO 2002-GB5833 | 20021220 |

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|-----|---|
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG |

PRAI GB 2001-30880 A 20011222

OS MARPAT 139:55180

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

AN 2002:409282 CAPLUS

DN 137:8438

TI Well fracturing fluid with controlled viscosity containing initiators and encapsulated breakers for gelled polyacrylates

IN Allan, Travis L.; Amin, Junad; Olson, Alan K.; Pierce, Ronald G.; Bobier, Dwight M.

PA Can.

SO U.S. Pat. Appl. Publ., 6 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PI US 2002065359 | A1 | 20020530 | US 2001-966750 | 20011001 |
| PRAI CA 2000-2322102 | A | 20001002 | | |

L1 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

AN 1993:563801 CAPLUS
 DN 119:163801
 TI Use of scale inhibitors in hydraulic fracture fluids to prevent scale build-up
 IN Watkins, David R.; Clemens, Joseph J.; Smith, John C.; Sharma, Surinder N.; Edwards, Hetty G.
 PA Union Oil Co., USA
 SO U.S., 4 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | US 5224543 | A | 19930706 | US 1991-753200 | 19910830 |
| PRAI | US 1991-753200 | | 19910830 | | |

L1 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

AN 1987:87424 CAPLUS
 DN 106:87424
 TI Stimulation of wells with carbon dioxide or nitrogen based fluids containing high proppant concentrations
 IN Harris, Phillip C.; Reidenbach, Vincent G.; Chisholm, Pat T.
 PA Halliburton Co., USA
 SO U.S., 10 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | US 4627495 | A | 19861209 | US 1985-719669 | 19850404 |
| | CA 1242389 | A1 | 19880927 | CA 1986-504672 | 19860320 |
| PRAI | US 1985-719669 | | 19850404 | | |

L1 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

AN 1986:426907 CAPLUS
 DN 105:26907
 TI Substituted amino-alkyl sulfonic acid compounds and their use in the treatment of subterranean formations
 IN Penny, Glenn S.
 PA Halliburton Co., USA
 SO U.S., 6 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|------|----------|-----------------|----------|
| PI | US 4563291 | A | 19860107 | US 1984-632770 | 19840720 |
| | CA 1249712 | A1 | 19890207 | CA 1985-486051 | 19850628 |
| | NO 8502676 | A | 19860121 | NO 1985-2676 | 19850703 |
| | AU 8545101 | A1 | 19860123 | AU 1985-45101 | 19850717 |
| | AU 580613 | B2 | 19890119 | | |
| | DK 8503307 | A | 19860121 | DK 1985-3307 | 19850719 |
| | EP 169074 | A2 | 19860122 | EP 1985-305157 | 19850719 |
| | EP 169074 | A3 | 19860625 | | |

R: AT, DE, FR, GB, IT, NL

PRAI US 1984-632770 19840720

L1 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

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AN 1975:550145 CAPLUS
 DN 83:150145
 TI Fracturing subterranean formations without damaging the formation
 IN Tinsley, John M.
 PA Halliburton Co.
 SO U.S., 3 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

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|------|----------------|------|----------|-----------------|----------|
| PI | US 3845824 | A | 19741105 | US 1973-373579 | 19730625 |
| PRAI | US 1973-373579 | | 19730625 | | |

L1 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

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AN 1967:78062 CAPLUS
 DN 66:78062
 TI Additives for reducing fluid loss from wells
 IN Dill, Walter R.
 PA Halliburton Co.
 SO Fr., 7 pp.
 CODEN: FRXXAK

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|------------|------|----------|-----------------|------|
| PI | FR 1452415 | | 19660909 | | |
| | DE 1240010 | | | DE | |
| | GB 1118155 | | | GB | |
| PRAI | US | | 19641027 | | |

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Patent Search

Abstracts

Number(s): GB 1118155

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

TI Additives for reducing fluid loss from wells

AB A mixt. of particles of a resin sol. in petroleum and a gum sol. in H₂O constitutes an excellent additive for redn. of fluid loss from petroleum and gas wells. The appropriate resins include modified acrylics, polystyrene, terpenes, o- or p-substituted phenolics, alkyds, etc., of 0.149-0.044 mm. diam. and softening point >66.degree.. The gums include natural gums, such as karaya and guar, and synthetic gums or polymers, such as polyacrylamide, Na polyacrylate, polyethylene glycol, MeOCH:CH₂-maleic anhydride, and urethane-polyethylene glycol copolymers. The gum and resin are preferably premixed in the ratio of 4:1 to 1:4 and used in amts. of 204-18 kg./1000-kg. well-treatment fluid (particularly acidification fluids).

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Patent Search

Abstracts

Number(s): GB 1118155

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

AB A mixt. of particles of a resin sol. in petroleum and a gum sol. in H₂O constitutes an excellent additive for redn. of fluid loss from petroleum and gas wells. The appropriate resins include modified acrylics, polystyrene, terpenes, o- or p-substituted phenolics, alkyds, etc., of 0.149-0.044 mm. diam. and softening point >66.degree.. The gums include natural gums, such as karaya and guar, and synthetic gums or polymers, such as polyacrylamide, Na polyacrylate, polyethylene glycol, MeOCH:CH₂-maleic anhydride, and urethane-polyethylene glycol copolymers. The gum and resin are preferably premixed in the ratio of 4:1 to 1:4 and used in amts. of 204-18 kg./1000-kg. well-treatment fluid (particularly acidification fluids).

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